

CLAIMS

What is claimed is:

1. A bread maker, comprising:
  - a main body forming an oven compartment;
  - upper and lower kneading drums spaced apart from each other inside the oven compartment, each kneading drum having a holder holding opposite ends of a mixing bag filled with raw materials;
  - a drum driving part rotating the upper and lower kneading drums;
  - a rotation sensing part sensing rotation positions of the holder of the upper kneading drums; and
  - a controller which controls the drum driving part so that when an initial power is supplied, the upper kneading drum is rotated by a predetermined angle to make the holder of the upper kneading drum stop within a predetermined angle range in which the holder of the upper kneading drum faces frontward based upon a position sensing signal of the rotation sensing part.
2. The bread maker according to claim 1, wherein the controller controls the drum driving part so that an upper end of the mixing bag is wound on the upper kneading drum by a predetermined length after being attached to the holder of the upper kneading drum, and then the holder of the lower kneading drum stops within a predetermined angle range in which the holder of the lower kneading drum faces frontward.
3. The bread maker according to claim 1, wherein the controller controls the drum driving part so that after a kneading process is completed, the mixing bag is downwardly wound to be detached from the upper kneading drum and wound on the lower kneading drum, and then the lower kneading drum is rotated to unwind the mixing bag until the holder of the lower kneading drum stops within a predetermined angle range in which the holder of the lower kneading drum faces frontward.

4. The bread maker according to claim 2, wherein the controller controls the drum driving part so that after a kneading process is completed, the mixing bag is downwardly wound to be detached from the upper kneading drum and wound on the lower kneading drum, and then the lower kneading drum is rotated to unwind the mixing bag until the holder of the lower kneading drum stops within a predetermined angle range in which the holder of the lower kneading drum faces frontward.

5. The bread maker according to claim 1, wherein the holder comprises a plurality of holding projections and the mixing bag has holding holes engaged to the holding projections.

6. A method of controlling a bread maker having a main body forming an oven compartment, upper and lower kneading drums spaced apart from each other inside the oven compartment with each kneading drum having a holder holding opposite ends of a mixing bag filled with raw materials, and a drum driving part rotating the kneading drums to knead the raw materials contained in the mixing bag, the method comprising:

supplying an initial power;  
rotating the upper kneading drum by a predetermined angle;  
sensing positions of the holder of the upper kneading drum; and  
making the holder of the upper kneading drum stop within a predetermined angle range in which the holder of the upper kneading drum faces frontward.

7. The method according to claim 6, further comprising:  
attaching an upper end of the mixing bag to the upper kneading drum and winding the upper end of the mixing bag onto the upper kneading drum by a predetermined length; and  
attaching a lower end of the mixing bag to the holder of the lower kneading drum.

8. The method according to claim 7, further comprising:  
kneading the raw materials in the mixing bag by rotating the upper and lower kneading drums clockwise and counterclockwise;  
downwardly winding the mixing bag after the kneading process is completed;  
detaching the upper end of the mixing bag from the upper kneading drum;  
winding the mixing bag on the lower kneading drum;

rotating the lower kneading drum so that the wound mixing bag is unwound from the lower kneading drum; and

making the holder of the lower kneading drum stop within a predetermined angle range in which the holder of the lower kneading drum faces frontward.

9. A bread maker to make bread, comprising:

an oven compartment in which a bread making process is performed, including upper and lower kneading drums, having holders which hold the bread, to rotate and thereby knead the bread;

a drum driving part to transmit a rotational force to the upper and lower kneading drums;

a rotation sensing part, sensing a rotation position of the holder of the upper kneading drum, to generate a position sensing signal; and

a controller to control the drum driving part to rotate the upper kneading drum and make the holder of the upper kneading drum stop within a predetermined angle range based upon the position sensing signal of the rotation sensing part.

10. The bread maker according to claim 9, wherein the holders of the upper and lower kneading drums are provided along axes thereof and hold opposite ends of a mixing bag containing the raw materials.

11. The bread maker according to claim 10, wherein a side of the oven compartment comprises:

a rotation shaft of the upper kneading drum to transmit rotational force to the upper kneading drum;

a driving motor rotating the lower kneading drum; and

a belt linking the rotation shaft of the upper kneading drum to rotate together with the lower kneading drum.

12. A method of controlling a bread maker having an oven compartment in which a holder holds a mixing bag filled with raw materials to make bread, comprising:

supplying an initial power to a controller to begin a bread making process and to operate the holder;

rotating the holder by a predetermined angle;

sensing a position of the holder; and  
stopping the holder within a predetermined angle range.

13. The method according to claim 12, further comprising opening a door of the bread maker to induce the supplying of the initial power to the controller.

14. The method according to claim 12, further comprising pressing a bread making start button to induce the supplying of the initial power to the controller.

15. The method according to claim 12, further comprising attaching the mixing bag to the holder before supplying an initial power to the controller.

16. A method of attaching and removing a mixing bag containing ingredients to make bread to and from holders on upper and lower kneading drums of a bread maker to carry out a bread making process, comprising:

supplying an initial power to a controller to begin the bread making process;

attaching the mixing bag to the upper and lower kneading drum holders;

performing the bread making process by winding the mixing bag on the upper and lower kneading drums, thereby kneading the ingredients;

unwinding the mixing bag from the upper kneading drum when the bread making process is complete by winding the mixing bag on the lower kneading drum; and

positioning the lower kneading drum so that the lower kneading drum holders face forward, when the winding the mixing bag is unwound from the upper kneading drum.

17. The method according to claim 16, wherein the attaching the mixing bag to the upper and lower kneading drums comprise:

attaching the mixing bag to the upper kneading drum; and

attaching the mixing bag to the lower kneading drum after the mixing bag has been attached to the upper kneading drum.

18. The method according to claim 17, wherein the attaching the mixing bag to the upper kneading drum comprises:

rotating the upper kneading drum by a predetermined angle;

detecting a rotation position of the upper kneading drum; and  
stopping the rotation of the upper kneading drum so the upper kneading drum holder  
faces forward relative to the bread maker.

19. The method according to claim 18, wherein the attaching the mixing bag to the lower kneading drum comprises rotating the upper and lower kneading drums to wind an upper end of the mixing bag on the upper kneading drum and stopping in a particular rotation position such that the lower kneading drum holder faces forward relative to the bread maker.

20. The method according to claim 16, wherein the attaching the mixing bag to the upper and lower kneading drums comprises:

attaching the mixing bag to the lower kneading drum; and

attaching the mixing bag to the upper kneading drum after the mixing bag is attached to the lower kneading drum.